

Figure 1

1 GCCTCTCTCCATCAGACACCCCAAGGTTCC 30

CGGAGAGAGGTAGTCTGTGGGGTTCCAAGG

31 ATCCGAAGCAGGCGGAGCACCGAACGCACC 60

TAGGCTTCGTCCGCCTCGTGGCTTGCGTGG

61 CCGGGGTGGTCAGGGACCCCCATCCGTGCT 90

GGCCCCACCAGTCCCTGGGGGTAGGCACGA

91 GCCCCCTAGGAGCCCGCGCCTCTCCTCTGC 120

CGGGGGATCCTCGGGCGCGGAGAGGAGACG

121 GCCCCGCCTCTCGGGCCGCAACATCGCGCG 150

CGGGGCGGAGAGCCCGGCGTTGTAGCGCGC

151 GTTCCTTTAACAGCGCGCTGGCAGGGTGTG 180

CAAGGAAATTGTCGCGCGACCGTCCCACAC

181 GGAAGCAGGACCGCGTCCTCCCGCCCCCTC 210

CCTTCGTCCTGGCGCAGGAGGGCGGGGGAG

211 CCATCCGAGTTTTCAGGTGAATTGGTCACCG 240

GGTAGGCTGAAAGTCCACTTAACCAGTGGC

AGGGAGGAGGCCGACACACCACACCTACAC
241 ----- 271
TCCCTCCTCCGGCTGTGTGGTGTGGATGTG

TCCCGCGTCCACCTCTCCCTCCCTGCTTCC
271 ----- 300
AGGGCGCAGGTGGAGAGGGAGGGACGAAGG

TCTTGGCGGAGGCGGCAGGAACCGAGAGCC
301 ----- 330
AGAACCGCCTCCGCCGTCCTTGGCTCTCGG

AGGTCCAGAGCGCCGAGGAGCCGGTCTAGG
331 ----- 360
TCCAGGTCTCGCGGCTCCTCGGCCAGATCC

ACGCAGCAGATTGGTTTATCTTGGAAGCTA
361 ----- 390
TGCGTCGTCTAACC AAATAGAACCTTCGAT

AAGGGCATTGCTCATCCTGAAGATCAGCTG
391 ----- 420
TTCCCGTAACGAGTAGGACTTCTAGTCGAC

 START
ACCATTGACAATCAGCCATGTCATCCAGGC
421 ----- 450
TGGTAACTGTTAGTCGGTACAGTAGGTCCG

 M S S R P

CTCTTGAAAGTCCACCTCCTTACAGGCCTG
451 ----- 480
GAGAACTTTCAGGTGGAGGAATGTCCGGAC

 L E S P P P Y R P D

ATGAATTCAAACCGAATCATTATGCACCAA
481 ----- 510
TACTTAAGTTTGGCTTAGTAATACGTGGTT
E F K P N H Y A P S

GCAATGACATATATGGTGGAGAGATGCATG
511 ----- 540
CGTTACTGTATATAACCACCTCTCTACGTAC
N D I Y G G E M H V

TTCGACCAATGCTCTCTCAGCCAGCCTACT
541 ----- 570
AAGCTGGTTACGAGAGAGTCGGTCGGATGA
R P M L S Q P A Y S

CTTTTTACCCAGAAGATGAAATTCTTCACT
571 ----- 600
GAAAAATGGGTGTTCTACTTTAAGAAGTGA
F Y P E D E I L H F

TCTACAAATGGACCTCTCCTCCAGGAGTGA
601 ----- 630
AGATGTTTACCTGGAGAGGAGGTCCTCACT
Y K W T S P P G V I

TTCGGATCCTGTCTATGCTCATTATTGTGA
631 ----- 660
AAGCCTAGGACAGATACGAGTAATAACACT
R I L S M L I I V M

TGTGCATTGCCATCTTTGCCTGTGTGGCCT
661 ----- 690
ACACGTAACGGTAGAAACGGACACACCGGA
C I A I F A C V A S

CCACGCTTGCCTGGGACAGAGGCTATGGAA
691 ----- 720
GGTGCGAACGGACCCTGTCTCCGATACCTT
T L A W D R G Y G T

CTTCCCTTTTtaggAGGTAGTGTAGGCTACC
721 ----- 750
GAAGGGAAAATCCTCCATCACATCCGATGG
S L L G G S V G Y P

CTTATGGAGGAAGTGGCTTTGGTAGCTACG
751 ----- 780
GAATACCTCCTTCACCGAAACCATCGATGC
Y G G S G F G S Y G

GAAGTGGCTATGGCTATGGCTATGGTTATG
781 ----- 810
CTTCACCGATAACCGATAACCGATAACCAATAC
S G Y G Y G Y G Y G

GCTATGGCTACGGAGGCTATACAGACCCAA
811 ----- 840
CGATAACCGATGCCTCCGATATGTCTGGGTT
Y G Y G G Y T D P R

GAGCAGCAAAGGGCTTCATGTTGGCCATGG
841 ----- 870
CTCGTCGTTTCCCGAAGTACAACCGGTACC
A A K G F M L A M A

CTGCCTTTTGTTCATTGCCGCGTTGGTGA
871 ----- 900
GACGGAAAACAAAGTAACGGCGCAACCACT
A F C F I A A L V I

TCTTTGTTACCAGTGTTATAAGATCTGAAA
901 ----- 930
AGAAACAATGGTCACAATATTCTAGACTTT
F V T S V I R S E M

TGTCCAGAACAAGAAGATACTACTTAAGTG
931 ----- 960
ACAGGTCTTGTTCTTCTATGATGAATTCAC
S R T R R Y Y L S V

TGATAATAGTGAGTGCTATCCTGGGCATCA
961 ----- 990
ACTATTATCACTCACGATAGGACCCGTAGT
I I V S A I L G I M

TGGTGTTTATTGCCACAATTGTCTATATAA
991 ----- 1020
ACCACAAATAACGGTCTTAACAGATATATT
V F I A T I V Y I M

TGGGAGTGAACCCAACTGCTCAGTCTTCTG
1021 ----- 1050
ACCCTCACTTGGGTTGACGAGTCAGAAGAC
G V N P T A Q S S G

GATCTCTATATGGTTCACAAATATATGCCC
1051 ----- 1080
CTAGAGATATACCAAGTCTTTATATACGGG
S L Y G S Q I Y A L

TCTGCAACCAATTTTATACACCTGCAGCTA
1081 ----- 1110
AGACGTTGGTTAAAATATGTGGACGTCGAT
C N Q F Y T P A A T

CTGGACTCTACGTGGATCAGTATTTGTATC
1111 ----- 1140
GACCTGAGATCGACCTAGTCATAAACATAG
G L Y V D Q Y L Y H
ACTACTGTGTTGTGGATCCCCAGGAGGCCA
1141 ----- 1170
TGATGACACAACACCTAGGGGTCCTCCGGT
Y C V V D P Q E A I
TTGCCATTGTACTGGGGTTCATGATTATTG
1171 ----- 1200
AACGGTAACATGACCCCAAGTACTAATAAC
A I V L G F M I I V
TGGCTTTTGCTTTTAATAATTTTCTTTGCTG
1201 ----- 1230
ACCGAAAACGAAATTATTAAAAGAAACGAC
A F A L I I F F A V
TGAAAACTCGAAGAAAGATGGACAGGTATG
1231 ----- 1260
ACTTTTGAGCTTCTTTCTACCTGTCCATAC
K T R R K M D R Y D
ACAAGTCCAATATTTTGTGGGACAAGGAAC
1261 ----- 1290
TG TTCAGGTTATAAAACACCCTG TTCCTTG
K S N I L W D K E H
ACATTTATGATGAGCAGCCCCCAATGTCTG
1291 ----- 1320
TGTAATACTACTCGTCGGGGGGTTACAGC
I Y D E Q P P N V E

AGGAGTGGGT TAAAAATGTGTCTGCAGGCA
1321 ----- 1350
TCCTCACCCAATTTT TACACAGACGTCCGT
E W V K N V S A G T

CACAGGACGTGCCTTCACCCCCATCTGACT
1351 ----- 1380
GTGTCCTGCACGGAAGTGGGGGATGACTGA
Q D V P S P P S D Y

ATGTGGAAAGAGTTGACAGTCCCATGGCAT
1381 ----- 1410
ATCACCTTTCTCAACTGTCAGGGTACCGTA
V E R V D S P M A Y

ACTCTTCCAATGGCAAAGTGAATGACAAGC
1411 ----- 1440
TGAGAAGGTTACCGTTTCACTTACTGTTCG
S S N G K V N D K R

GGTTTTATCCAGAGTCTTCCTATAAATCCA
1441 ----- 1470
CCAAAATAGGTCTCAGAAGGATATTTAGGT
F Y P E S S Y K S T

CGCCGGTTCCTGAAGTGGTTCAGGAGCTTC
1471 ----- 1500
GCGGCCAAGGACTTCACCAAGTGGTCTGAAG
P V P E V V Q E L P

CATTA ACTTCGCCTGTGGATGACTTCAGGC
1501 ----- 1530
GTAATTGAAGCGGACACCTACTCAAGTCCG
L T S P V D D F R Q

AGCCTCGTTACAGCAGCGGTGGTAACTTTG
1531 ----- 1560
TCGGAGCAATGTCGTCGCCACCATTTGAAAC
P R Y S S G G N F E

AGACACCTTCAAAAAGAGCACCTGCAAAGG
1561 ----- 1590
TCTGTGGAAGTTTTTCTCGTGGACGTTTCC
T P S K R A P A K G

GAAGAGCAGGAAGGTCAAAGAGAACAGAGC
1591 ----- 1620
CTTCTCGTCCTTCCAGTTTCTCTTGTCTCG
R A G R S K R T E Q

AAGATCACTATGAGACAGACTACACAACCTG
1621 ----- 1650
TTCTAGTGATACTCTGTCTGATGTGTTGAC
D H Y E T D Y T T G

GCGGCGAGTCCTGTGATGAGCTGGAGGAGG
1651 ----- 1680
CGCCGCTCAGGACACTACTCGACCTCCTCC
G E S C D E L E E D

ACTGGATCAGGGAATATCCACCTATCACTT
1681 ----- 1710
TCACCTAGTCCCTTATAGGTGGATAGTGAA
W I R E Y P P I T S

CAGATCAACAAAGACAACCTGTACAAGAGGA
1711 ----- 1740
GTCTAGTTGTTTCTGTTGACATGTTCTCCT
D Q Q R Q L Y K R N

ATTTTGACACTGGCCTACAGGAATACAAGA
1741 ----- 1770
TAAAACTGTGACCGGATGTCCTTATGTTCT
F D T G L Q E Y K S

GCTTACAATCAGAACTTGATGAGATCAATA
1771 ----- 1800
CGAATGTTAGTCTTGAAC TACTCTAGTTAT
L Q S E L D E I N K

AAGAACTCTCCCGTTTGGATAAAGAATTGG
1801 ----- 1830
TTCTTGAGAGGGCAAACCTATTTCTTAACC
E L S R L D K E L D

ATGACTATAGAGAAGAAAGTGAAGAGTACA
1831 ----- 1860
TACTGATATCTCTTCTTTCACTTCTCATGT
D Y R E E S E E Y M

TGGCTGCTGCTGATGAATACAATAGACTGA
1861 ----- 1890
ACCGACGACGACTACTTATGTTATCTGACT
A A A D E Y N R L K

AGCAAGTGAAGGGATCTGCAGATTACAAAA
1891 ----- 1920
TCGTTCACTTCCCTAGACGTCTAATGTTTT
Q V K G S A D Y K S

GTAAGAAGAATCATTGCAAGCAGTTAAAGA
1921 ----- 1950
CATTCTTCTTAGTAACGTTTCGTCAATTTCT
K K N H C K Q L K S

GCAAATTGTCACACATCAAGAAGATGGTTG
1951 ----- 1980
CGTTTAACAGTGTGTAGTTCTTCTACCAAC
K L S H I K K M V G
STOP
GAGACTATGATAGACAGAAAACATAGAAAGG
1981 ----- 2010
CTCTGATACTATCTGTCTTTTGTATCTTCC
D Y D R Q K T
CTGATGCCAAGTTGTTTGAGAAATTAAGTA
2011 ----- 2040
GACTACGGTTCAACAAACTCTTTAATTCAT
TCTGACATCTCTGCAATCTTCTCAGAAGGC
2041 ----- 2070
AGACTGTAGAGACGTTAGAAGAGTCTTCCG
AAATGACTTTGGACCATAACCCCGGAAGCC
2071 ----- 2100
TTTACTGAAACCTGGTATTGGGGCCTTCGG
AAACCTCTGTGAGCATCACAAAGTTTTGGG
2101 ----- 2130
TTTGGAGACACTCGTAGTGTTTCAAACCC
TTGCTTTAACATCATCAGTATTGAAGCATT
2131 ----- 2160
AACGAAATTGTAGTAGTCATAACTTCGTAA
TTATAAATCGCTTTTGTATAATCAACTGGGC
2161 ----- 2190
AATATTTAGCGAAAACCTATTAGTTGACCCG

2191 TGAACAACTCCAATTAAGGATTTTATGCTT 2220

ACTTGTTGAGGTTAATTCCTAAAATACGAA

2221 TAAACATTGGTTCTTGTATTAAGAATGAAA 2250

ATTTGTAACCAAGAACATAATTCTTACTTT

2251 TACTGTTTGAGGTTTTTAAGCCTTAAAGGA 2280

ATGACAAACTCCAAAAATTCGGAATTCCT

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TCCAAGACCACACTTGATTTGAAAGTGTGG

2311 CC 2312
--
GG

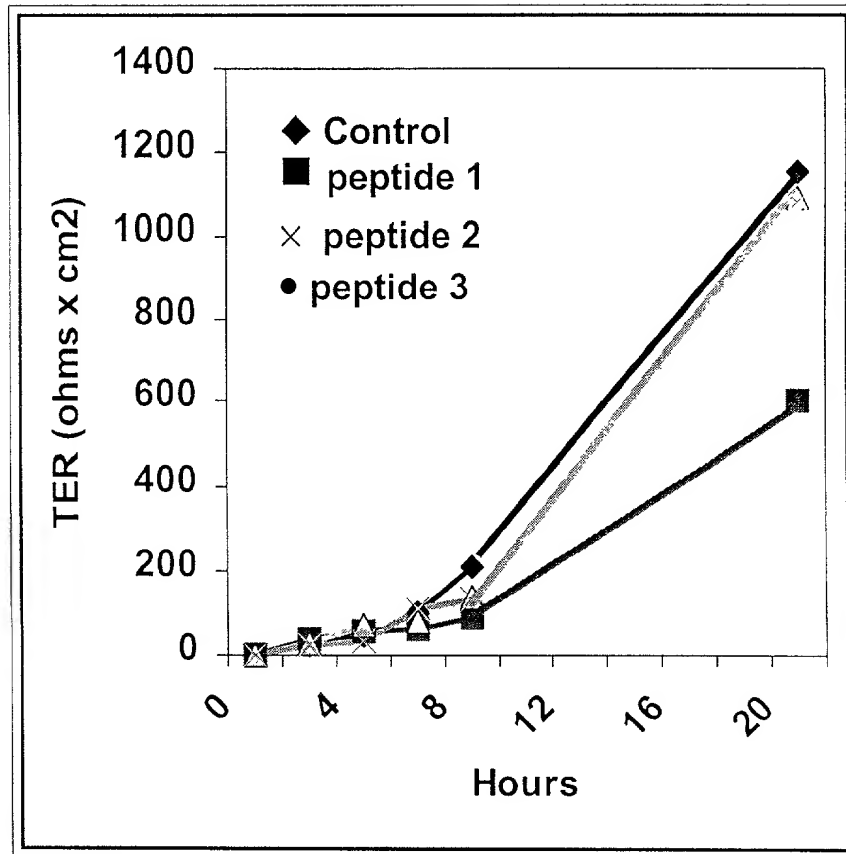
Figure 2

Figure 3A

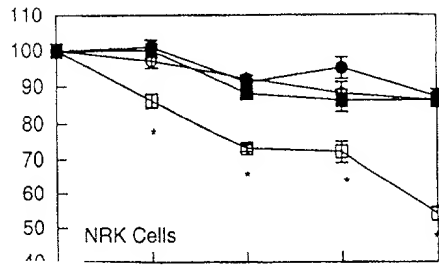


Figure 3B

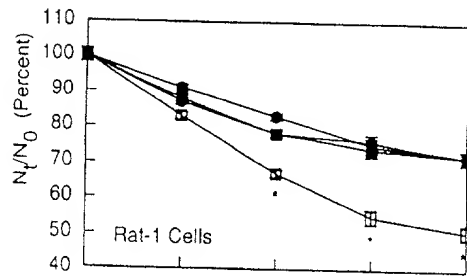


Figure 3C

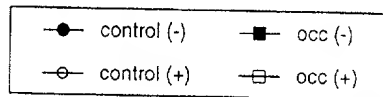
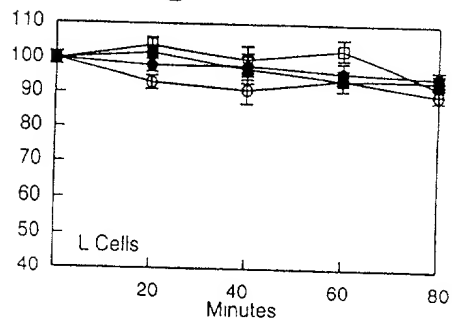


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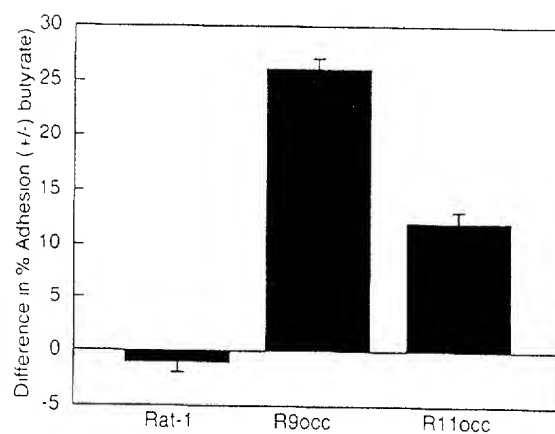


Figure 5A

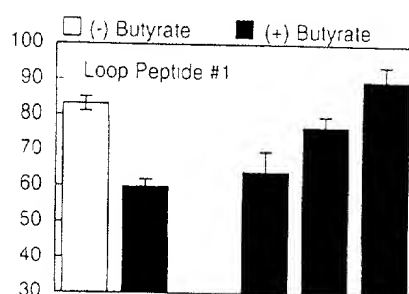


Figure 5B

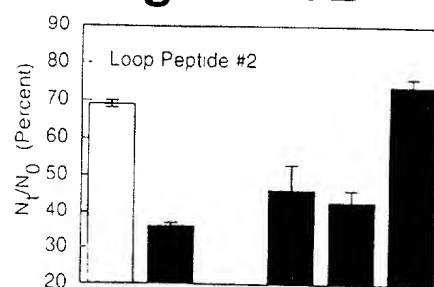


Figure 5C

